STI Annual Diagnoses and Trends - 2020

Data as of June 1, 2021



Reportable Conditions

Chlamydia	Gonorrhea	Syphilis
Caused by bacteria Chlamydia trachomatis	Caused by bacteria Neisseria gonorrhoeae	Caused by bacteria Treponema pallidum
Most people who have chlamydia have no symptoms	Possible sequelae include pelvic inflammatory disease (PID) and disseminated gonococcal infection (DGI)	Syphilis is divided into stages with different signs and symptoms; primary and secondary syphilis present with symptoms
Serovariants of chlamydia can cause lymphogranuloma venereum (LGV)	Antibiotics have successfully treated gonorrhea for several decades; however, the bacteria has historically developed resistance to various drug types	Without treatment, syphilis can spread, causing manifestations such as neurosyphilis, ocular or otic syphilis, or death
Treatable by azithromycin or doxycycline	Treatable by ceftriaxone (updated recommended dosage)	Treatable by benzathine penicillin or doxycycline

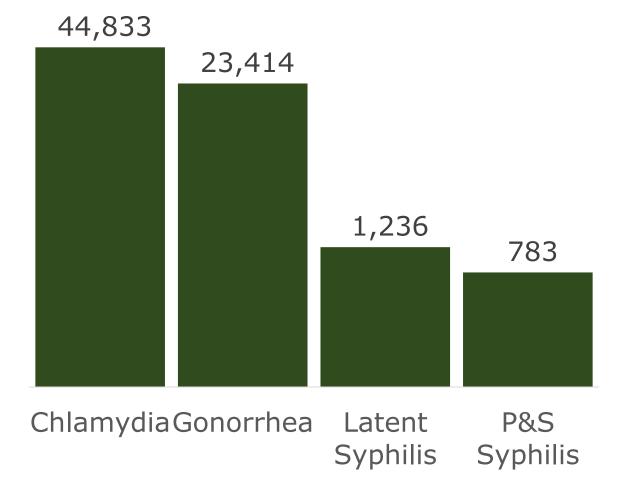
Reference and more information at https://www.cdc.gov/std

Reportable Conditions (less common)

Lymphogranuloma venereum	Chancroid	Granuloma inguinalae
Caused by a serovariant of the bacteria Chlamydia trachomatis	Caused by bacteria Hemophilus ducreyi	Caused by bacteria Klebsiella granulomatis
Symptoms range and most commonly include painful inflammation in the rectum (known as proctitis).	Usually presents as one or more genital ulcers that bleed on contact	A disease of the skin and mucous membranes in the genital area, often with granuloma lesions.
Most recent cases in Michigan are among men who have sex with men with multiple partners	Rare in the U.S., more common in tropical countries. No cases reported in Michigan in 2020.	This is rare in the U.S.; no cases were reported in Michigan in 2020.
Treatable by long doses of doxycycline	Treatable by either ceftriaxone or azithromycin	Treatable by doxycycline

Reference and more information at https://www.cdc.gov/std

2020 STI Diagnoses at a glance



	Diagnose: Count	s Rate per 100,000
Chlamydia	44,833	449.8
Gonorrhea	23,414	234.9
Latent Syphilis	1,236	12.4
P&S Syphilis	783	7.9

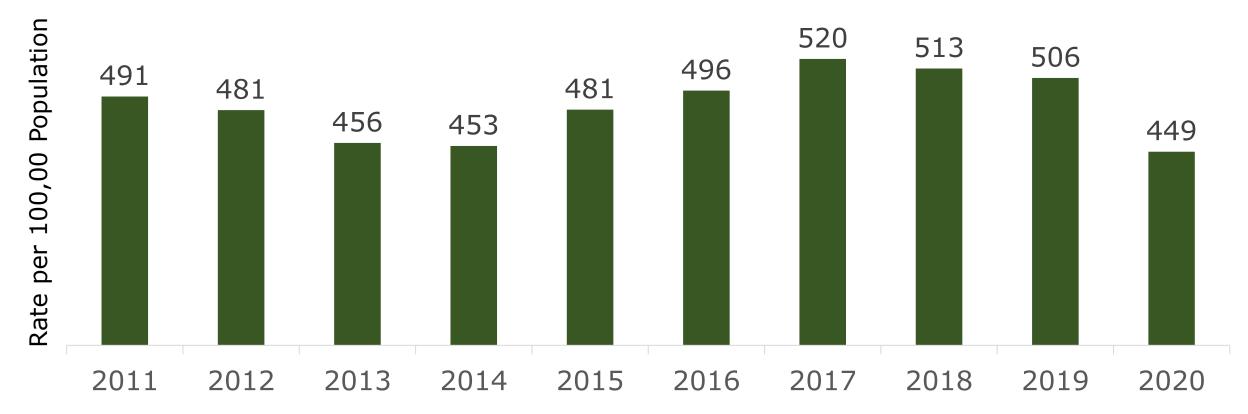
Includes probable and confirmed cases reported in Michigan Disease Surveillance System (MDSS)

Case dates are pulled from onset date when available, then diagnosis date, then referral date to MDHHS if other dates are blank

Chlamydia – Trends over Time

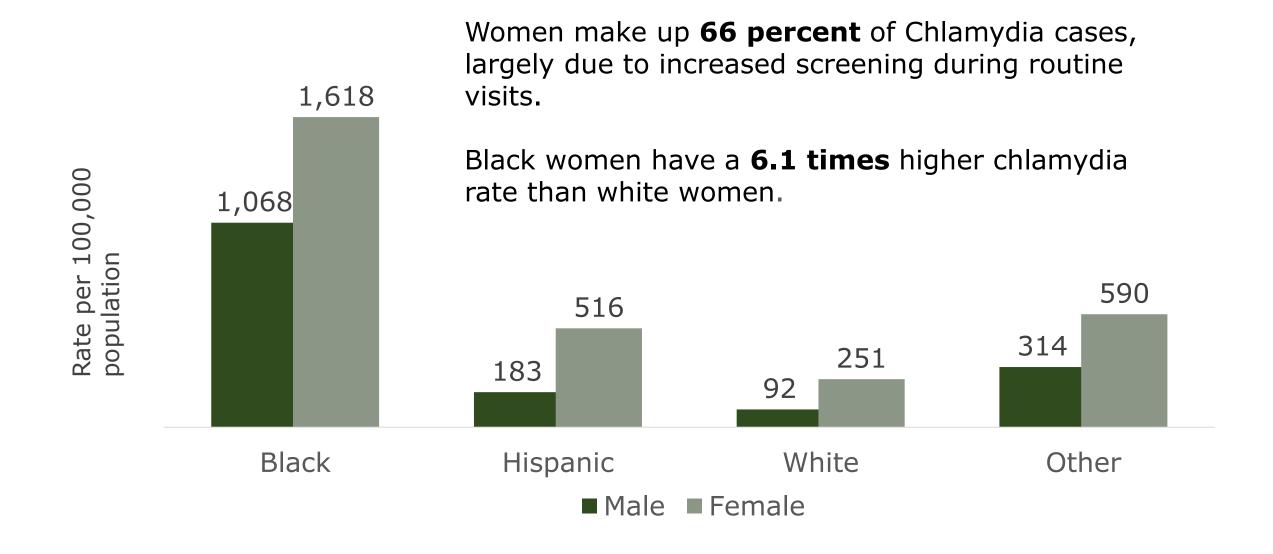
There has been no significant trend in chlamydia rates in the past 10 years.

Decreased testing in 2020 is the likely cause of a recent dip in chlamydia diagnoses for the year, which may mean more undiagnosed and untreated infections.



See full trend report here.

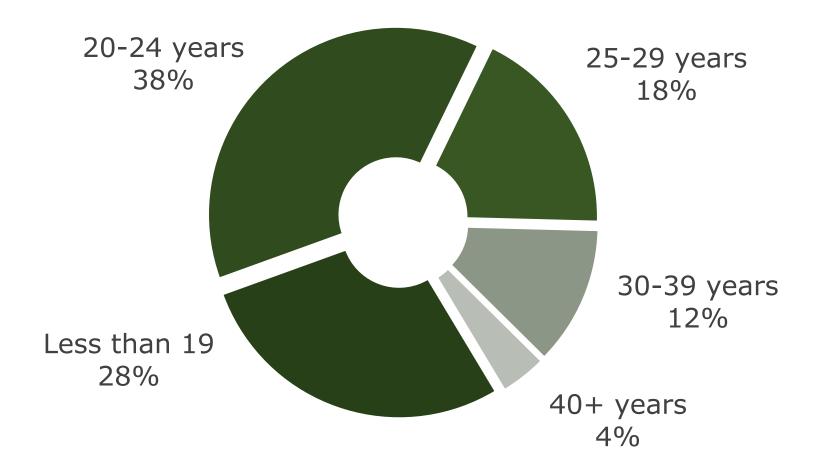
Chlamydia - Priority Populations



Chlamydia - Priority Populations

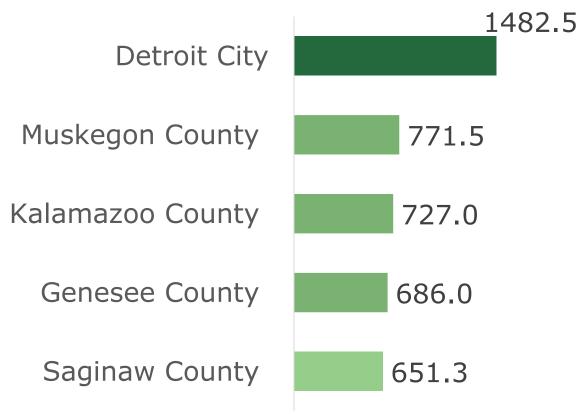
66 percent of Chlamydia cases were diagnosed among patients less than 25 years old

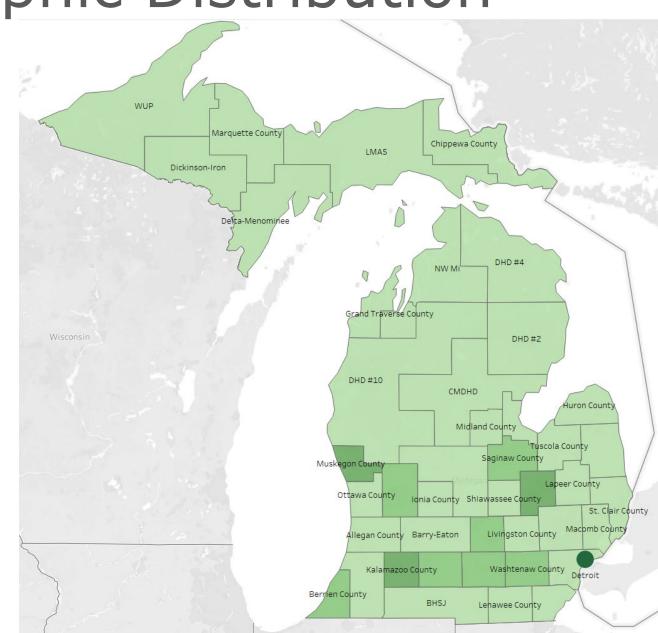
These young people have more than **10 times** higher risk of chlamydia diagnosis.



Chlamydia - Geographic Distribution

Five Local Health Jurisdictions with Highest Case Rate per 100,000







Chlamydia-Gonorrhea Coinfections

In 2020, **15%** of all chlamydia patients were co-diagnosed with gonorrhea; **28%** of all gonorrhea patients were co-diagnosed with chlamydia.

People most likely to be co-diagnosed with gonorrhea and chlamydia include:







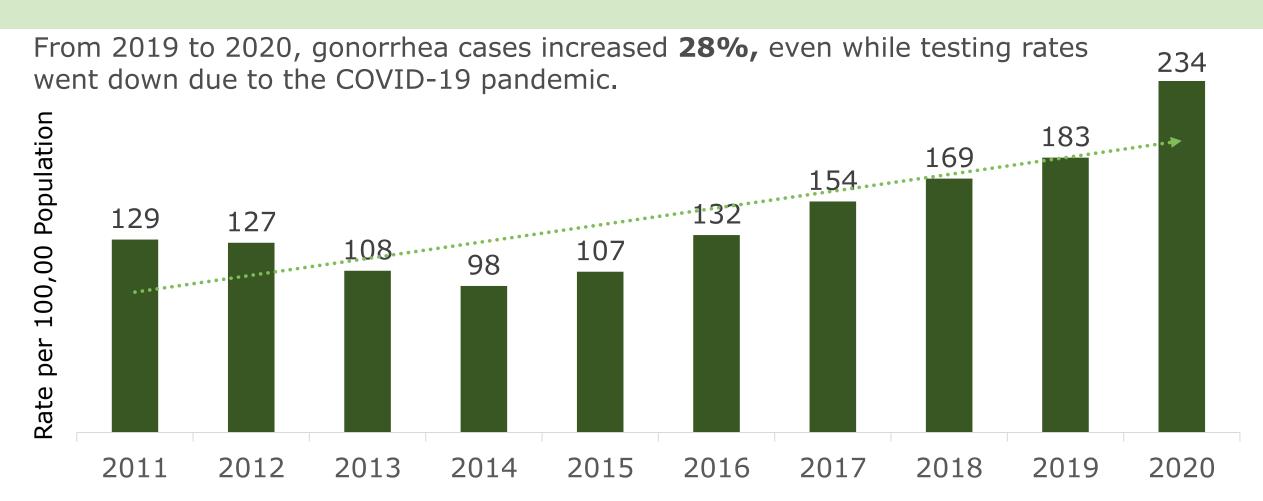
15-29 Year Olds (82% of all co-infections)

Women (55% of all co-infections)

Gay or Bisexual Men
(2x more likely to
have co-infection
compared to other men)

Gonorrhea - Trends over Time

Since 2011, gonorrhea rates have increased 7 percent annually, on average

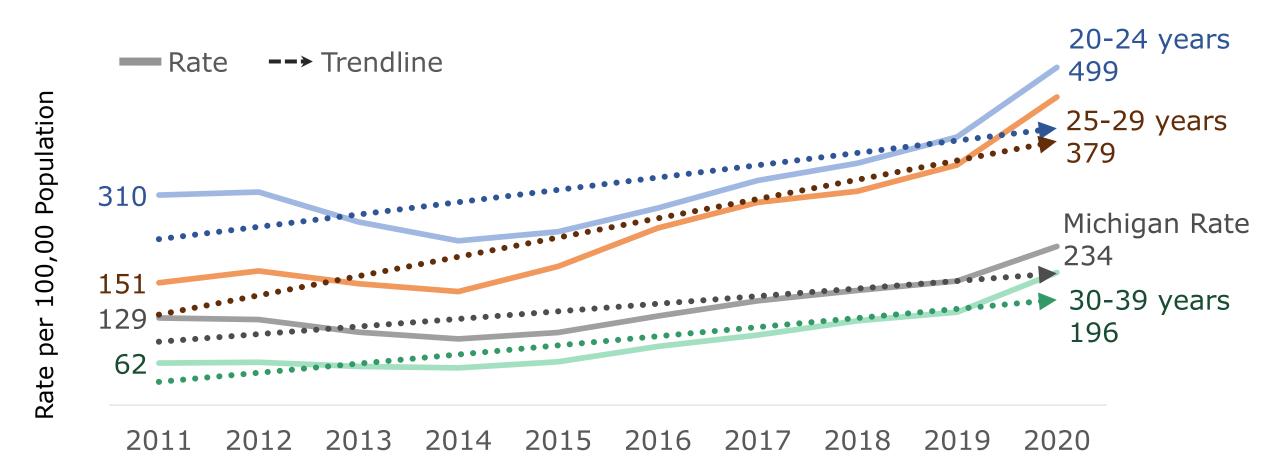


See full trend report here.

Gonorrhea Trends

Recent gonorrhea increases have been noted in nearly all measurable sub-populations.

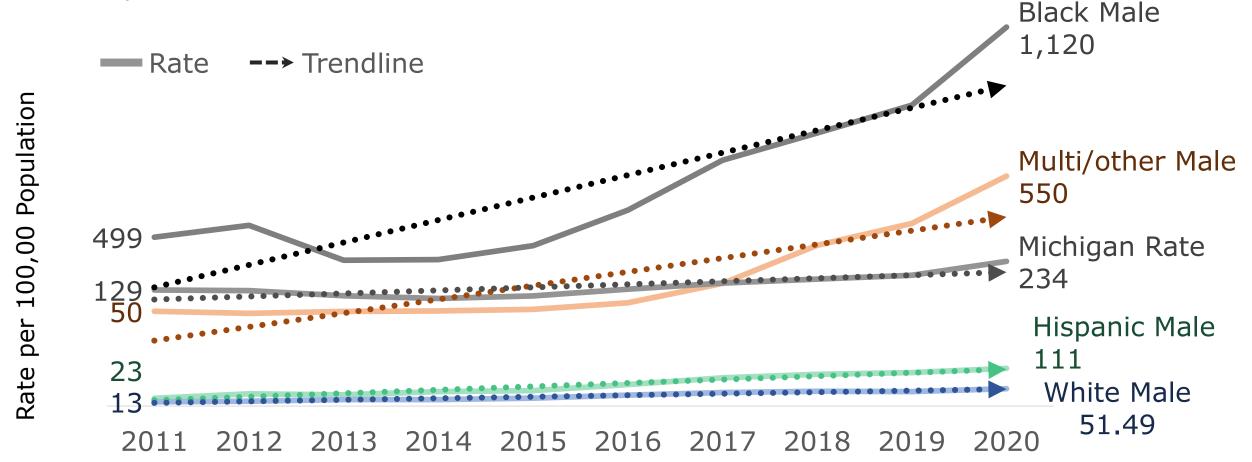
By age, people over 30 are experiencing the highest average annual increases, but people less than 30 still have much higher overall rates of diagnosis.



Gonorrhea Trends - Men

Recent gonorrhea increases have been noted in nearly all measurable sub-populations.

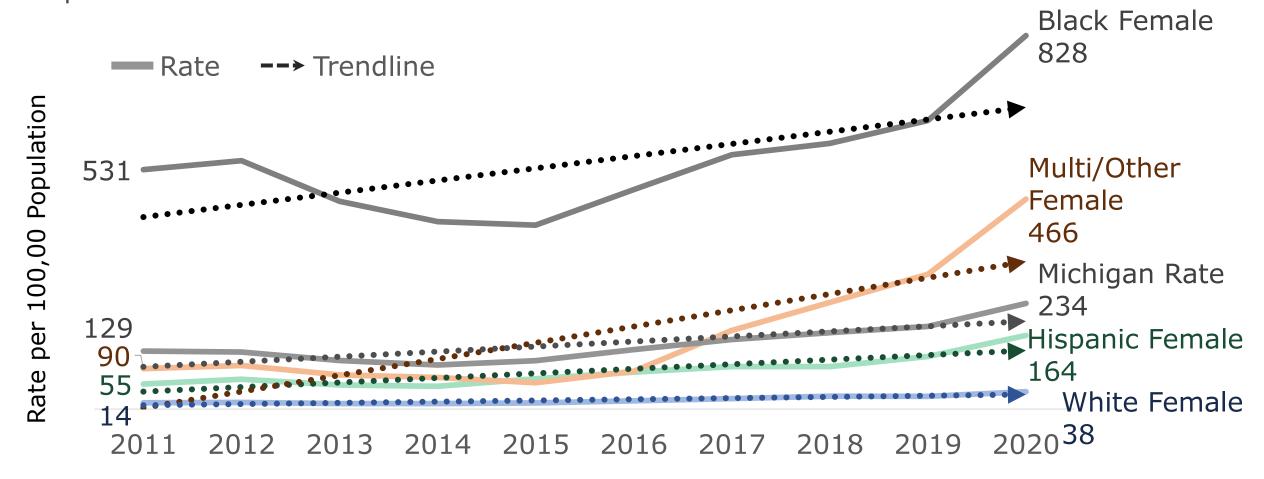
Among men, increases in diagnoses are visible in all racial/ethnic stratifications, but are steepest in Black men and multiracial men.



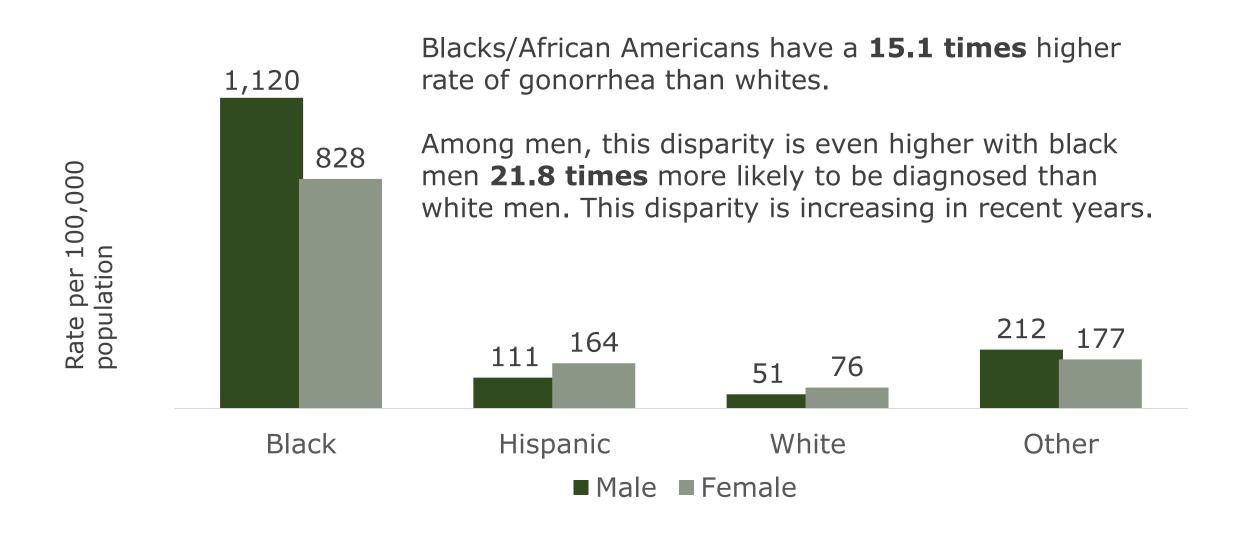
Gonorrhea Trends - Women

Recent gonorrhea increases have been noted in nearly all measurable sub-populations.

Among women, increases are steep for all racial and ethnic groups with large disparities across racial identities.



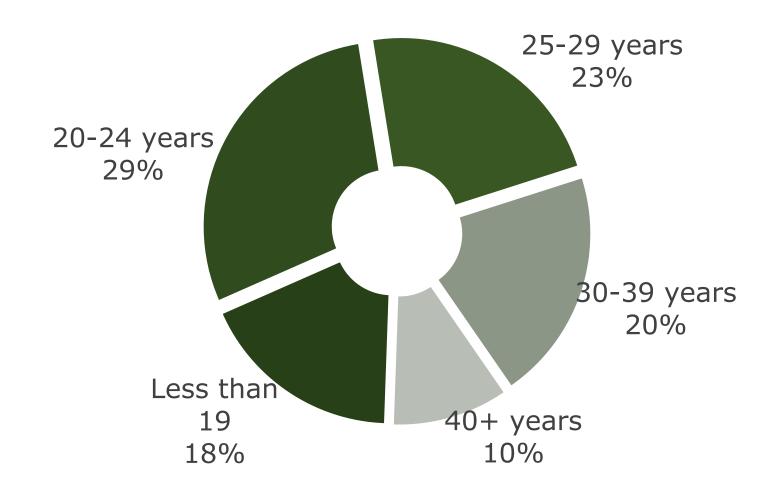
Gonorrhea - Priority Populations



Gonorrhea - Priority Populations

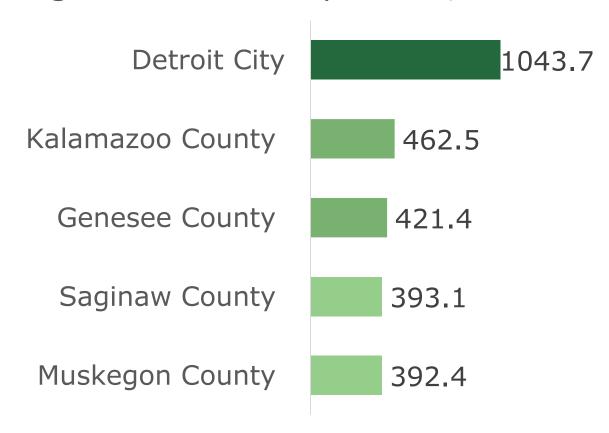
47 percent of gonorrhea cases were diagnosed among patients less than 25 years old.

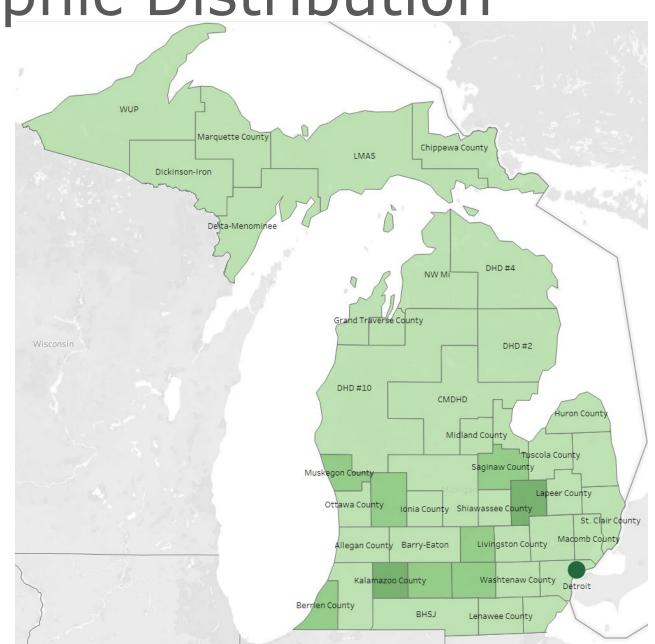
20–24 year-olds have the highest gonorrhea diagnosis rate of all age groups.



Gonorrhea - Geographic Distribution

Five Local Health Jurisdictions with Highest Case Rate per 100,000

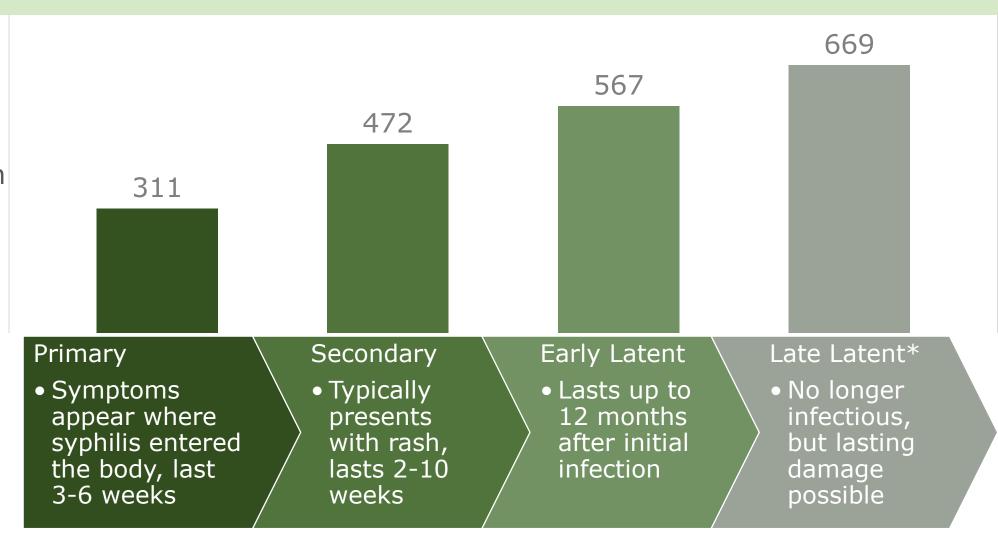




Syphilis - Stages of Infection

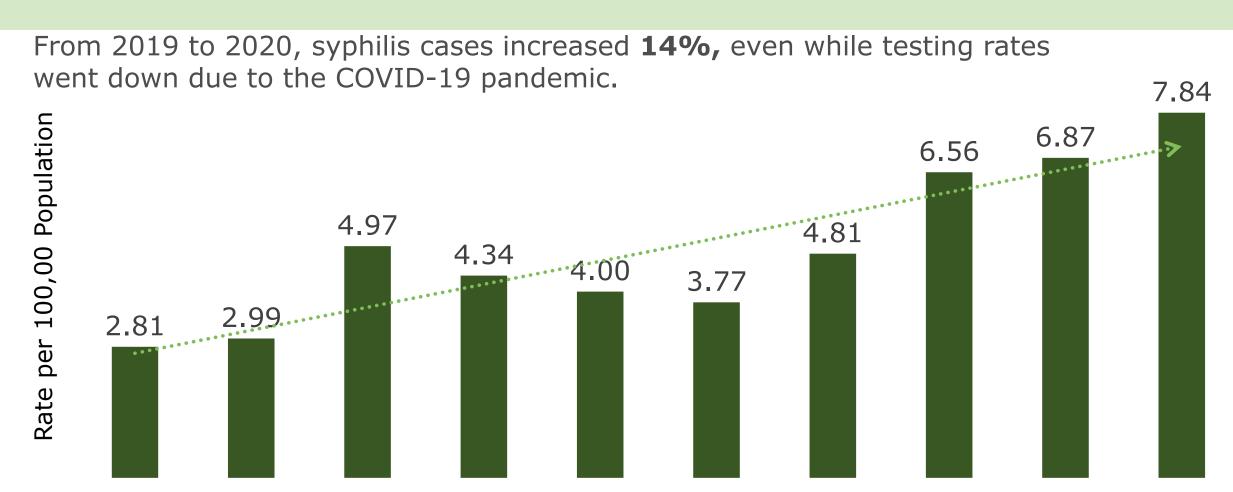
Without proper treatment, early syphilis symptoms will fade but the infection remains in the body and can cause irreparable damage.

For capturing new diagnoses, we will focus on primary and secondary infections, which have symptoms.



P&S Syphilis – Trends over Time

Since 2011, P&S Syphilis rates have increased 10 percent annually, on aveage

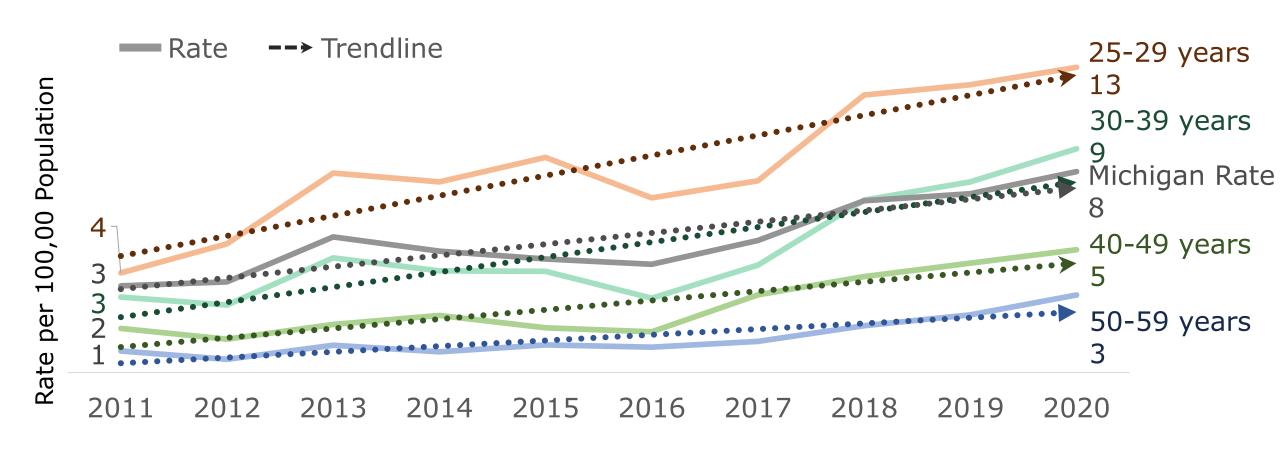


See full trend report here.

P&S Syphilis Trends

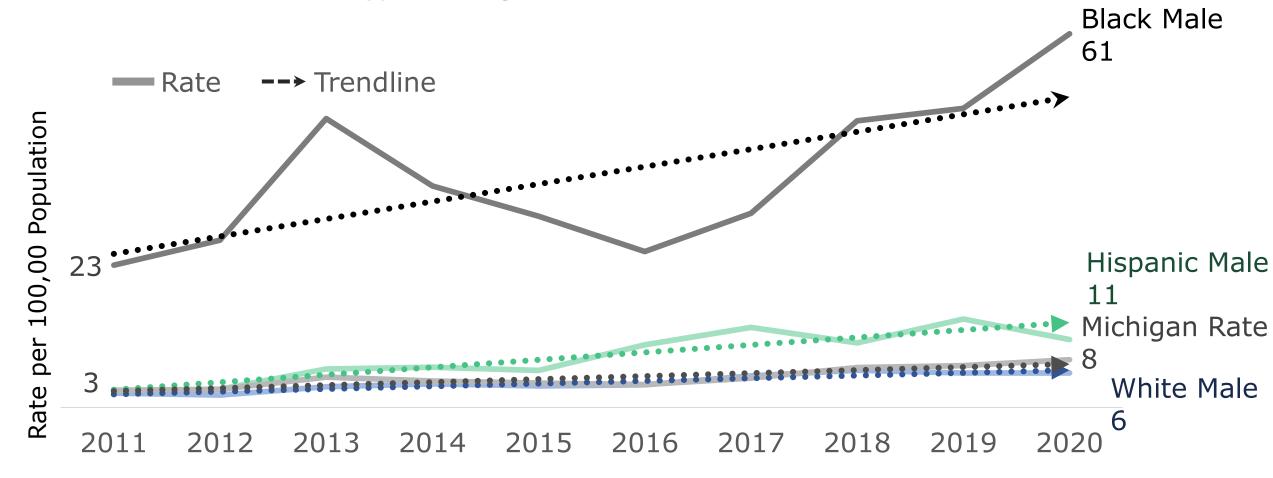
Recent syphilis increases have been noted in nearly all measurable sub-populations.

By age, people under 40 are experiencing the highest average annual increases, and differences in rates by age group are increasing.



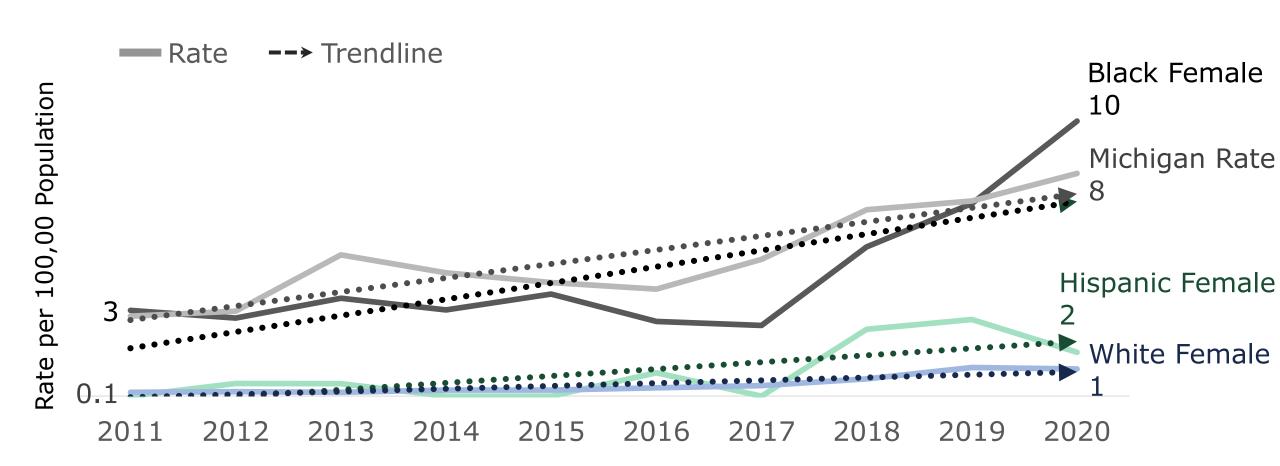
P&S Syphilis Trends - Men

Among men, by race, significant increases have been measured for Black, Hispanic/Latino, and white men. There has been a widening of the disparity between Black and white men in syphilis diagnosis rates.



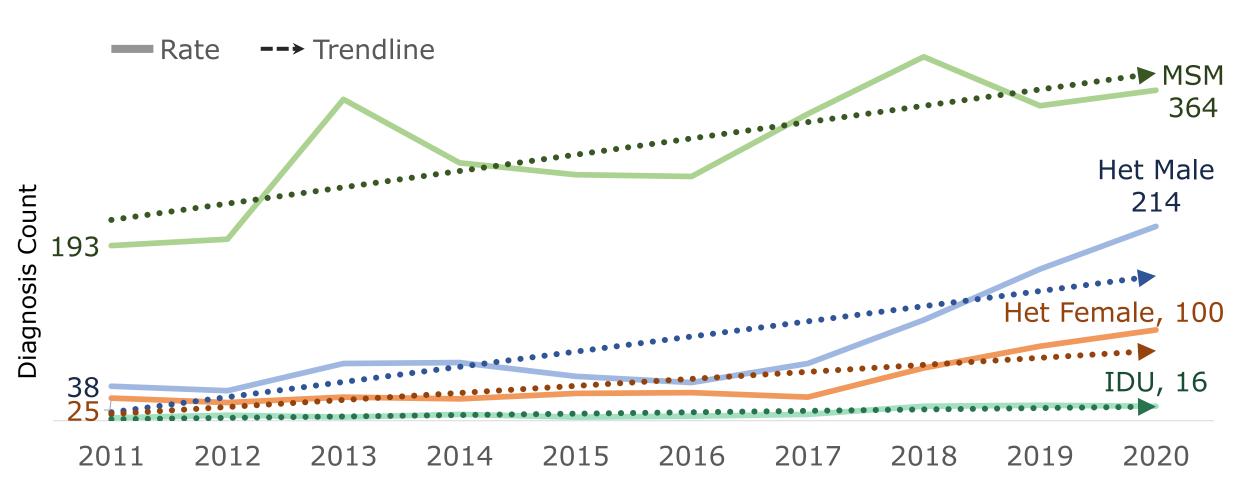
P&S Syphilis Trends – Women

Among women, by race, cases among women have tripled in the past 10 years. Females remain less likely to be diagnosed with syphilis compared to men, but that risk difference is shrinking in recent years.

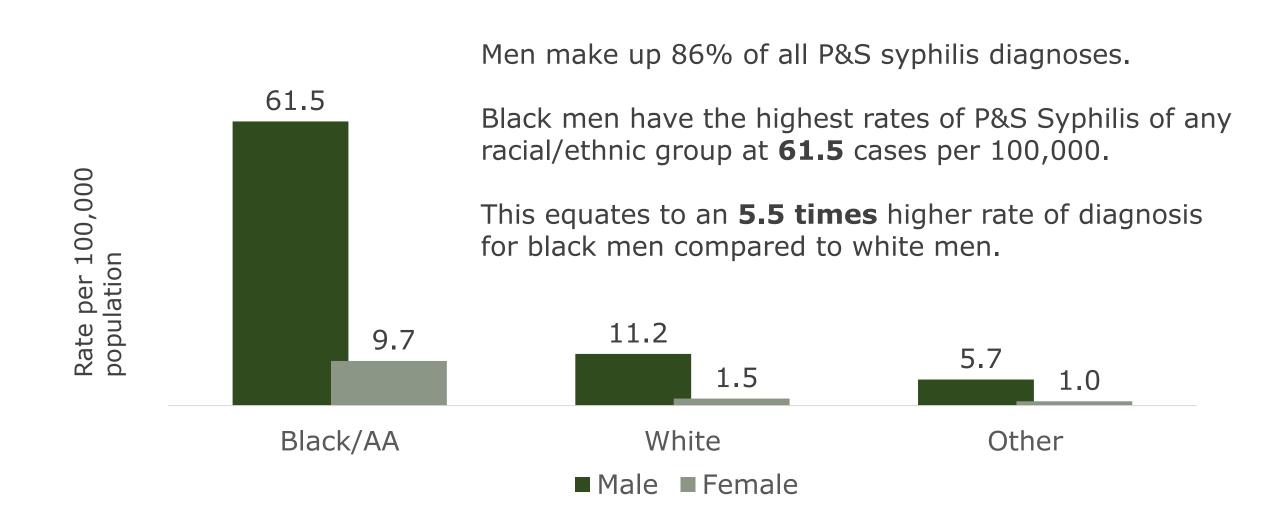


P&S Syphilis Trends – Transmission Risk

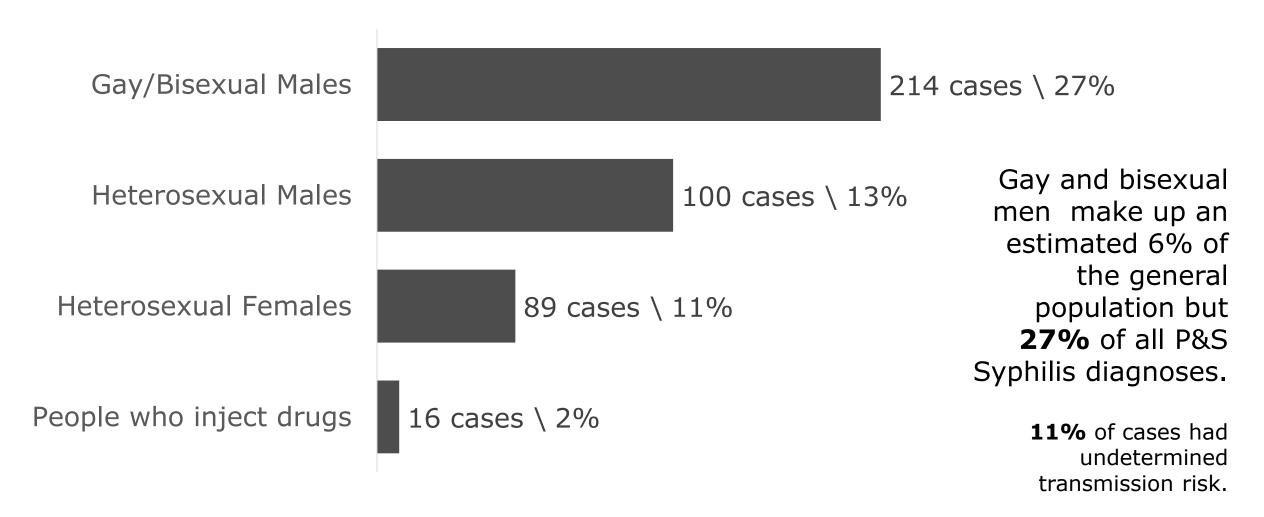
By transmission risk, cases have been increasing most significantly among people who report only heterosexual sex (both males and females). Men who have sex with men remain at the highest risk of syphilis infection.



P&S Syphilis – Priority Populations



P&S Syphilis – Priority Populations

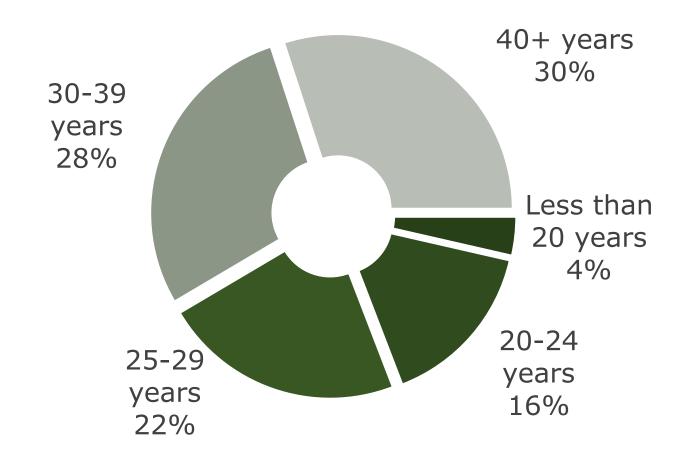


P&S Syphilis – Priority Populations

Less than **20 percent** of syphilis cases were diagnosed among patients less than 25 years old.

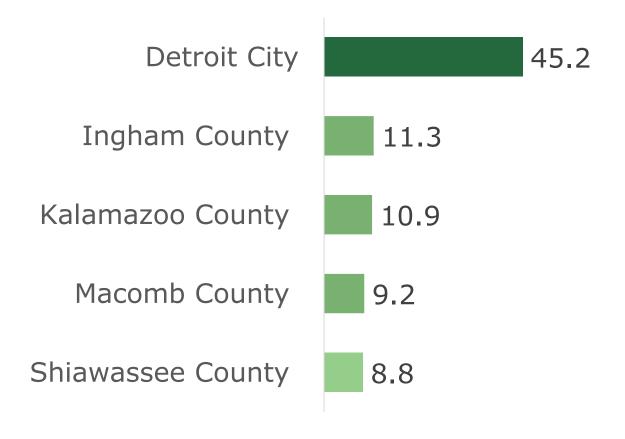
25-29 year-olds

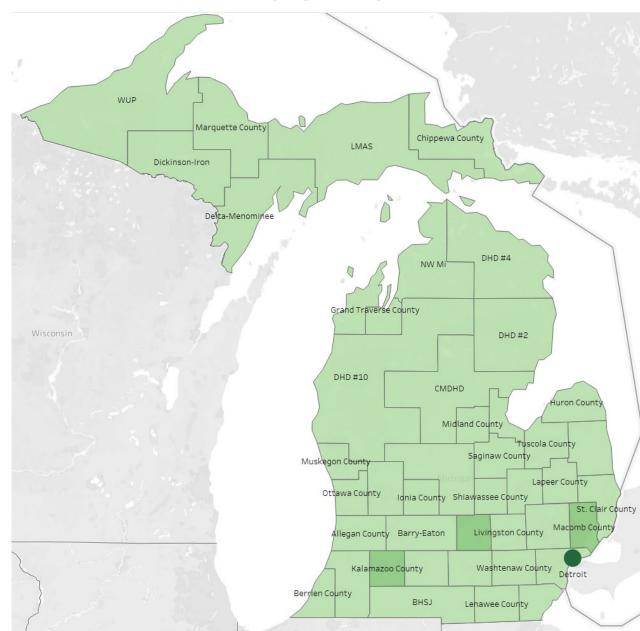
have the highest syphilis diagnosis rate of all age groups.



P&S Syphilis - Geographic Distribution

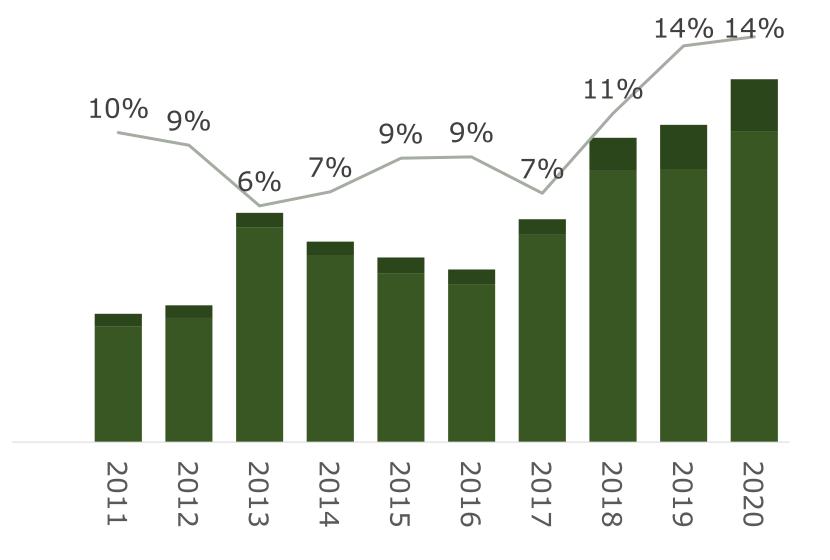
Five Local Health Jurisdictions with Highest Case Rate per 100,000





P&S Syphilis and Women

Women of childbearing age remain a priority population for public health follow-up as they are at risk of vertical transmission of syphilis to infants during pregnancy and childbirth.

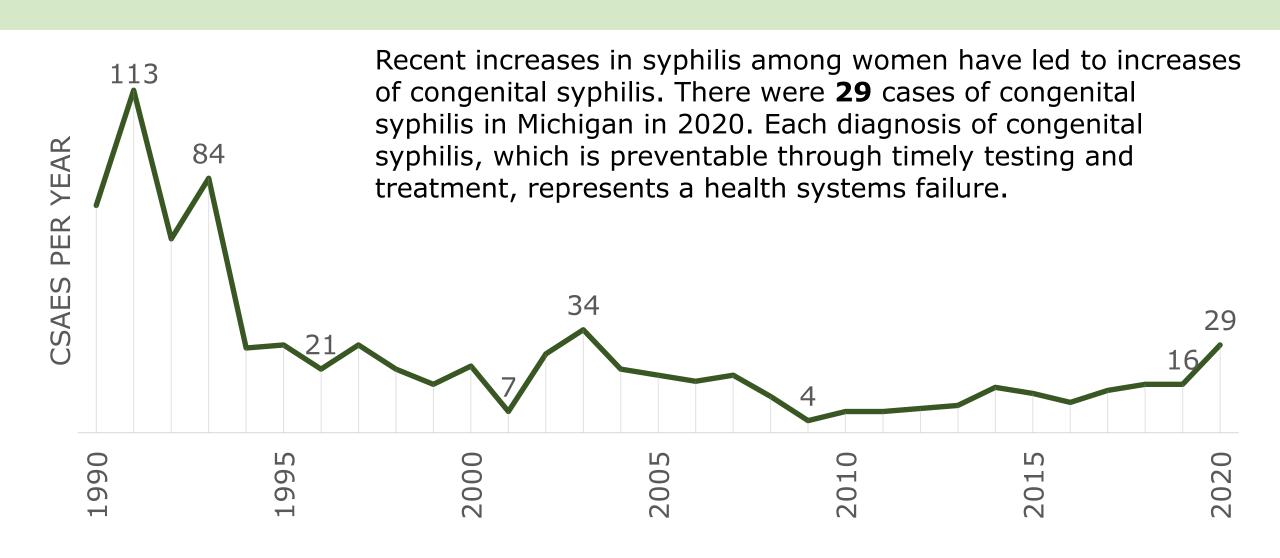


■Female

—% female

■Male

Congenital Syphilis



For questions on using these data or for additional data requests, contact:

MDHHS-DHSP-TAandData-Requests@michigan.gov